

Listing of Claims:

Claims 1-19 (Canceled).

20. (New) A camera apparatus comprising:

an image pickup device which acquires an object image and
outputs an image signal;

5 a recording unit which records the image signal output from
the pickup device;

a first detector which detects a light of a predetermined
wavelength included in the object image based on the image signal
output from the image pickup device;

10 a determination unit which determines whether an image
pickup frame period is synchronized with a period of an optical
signal which is included in the image signal output from the
image pickup device;

15 a synchronizing unit which synchronizes the image pickup
frame period with the period of the optical signal by shifting a
phase of the image pickup frame period when the determination
unit determines that the image pickup frame period is not
synchronized with the period of the optical signal; and

20 a controller which executes a predetermined control
operation when the light of the predetermined wavelength is
detected by the detector.

21. (New) The camera apparatus according to claim 20,
wherein:

the first detector detects a transmitting position of the
light; and

5 the controller executes the predetermined control operation
based on the transmitting position of the light detected by the
first detector.

22. (New) The camera apparatus according to claim 21,
further comprising:

a second detector which detects a plurality of types of code
data which are transmitted by the optical signal, which is
5 periodically output from the image pickup device; and

wherein the controller executes the control operation based
on the plurality of types of code data detected by the second
detector.

23. (New) The camera apparatus according to claim 22,
wherein:

the first detector detects the light before the second
detector detects the code data.

24. (New) A camera apparatus comprising:

an image pickup device which acquires an object image and
outputs an image signal;

5 a recording unit which records the image signal output from
the image pickup device;

a detector which detects a transmitting position of an
optical signal in the object image based on the image signal
output from the image pickup device;

10 a specifying unit which specifies an area of the object
image based on changes in the transmitting position detected by
the detector; and

a controller which executes a control operation based on the
area specified by the specifying unit.

25. (New) A camera apparatus comprising:

an image pickup device which acquires an object image and
outputs an image signal;

a recording unit which records the image signal output from
the image pickup device;

a detector which detects a transmitting position of an
optical signal in the object image based on the image signal
output from the image pickup device;

a recognition unit which recognizes a moving pattern of a transmitting source of the optical signal based on changes in the transmitting position detected by the detector; and

a controller which executes a control operation based on the moving pattern recognized by the recognition unit.

26. (New) A camera apparatus comprising:

an image pickup device which acquires an object image and outputs an image signal;

5 a recording unit which records the image signal output from the image pickup device;

a detector which detects a transmitting position of an optical signal in the object image based on the image signal output from the image pickup device;

10 an area setting unit which sets a focus detection area corresponding to the transmitting position detected by the detector; and

a controller which executes a focus control operation based on the focus detection area set by the area setting unit.

27. (New) A camera apparatus comprising:

an image pickup device which acquires an object image and outputs an image signal;

a recording unit which records the image signal output from
5 the image pickup device;

a detector which detects a transmitting position of an
optical signal in the object image based on the image signal
output from the image pickup device;

an area setting unit which sets an exposure detection area
10 corresponding to the transmitting position detected by the
detector; and

a controller which executes an exposure control operation
based on the exposure detection area set by the area setting
unit.

28. (New) The camera apparatus according to claim 27,
wherein:

the area setting unit sets a weighted exposure detection
area in which a weighting factor of a portion is changed based on
5 a distance between the portion and the transmitting position
detected by the detector; and

the controller executes a weighted exposure control
operation based on the weighted exposure detection area set by
the area setting unit.

29. (New) A camera apparatus comprising:

an image pickup device which acquires an object image and
outputs an image signal;

5 a recording unit which records the image signal output from
the image pickup device;

a detector which detects a transmitting position of an
optical signal in the object image based on the image signal
output from the image pickup device;

10 an area setting unit which sets a color evaluation area
corresponding to the transmitting position detected by the
detector; and

a controller which executes a white balance control
operation based on the color evaluation area set by the area
setting unit.

30. (New) The camera apparatus according to claim 29.
wherein:

5 the weighted exposure detection area comprises an area which
surrounds the transmitting position but does not include the
transmitting position.

31. (New) A camera apparatus comprising:

an image pickup device which acquires an object image and
outputs an image signal, wherein the object image includes an
optical beam for transmitting a specific code, and the image
5 signal includes specific code data indicating the specific code;

a recording unit which records the image signal output from
the image pickup device;

a detector which detects the specific code data included in
the image signal output from the image pickup device; and

10 a controller which executes a control operation based on the
specific code data detected by the detector.

32. (New) The camera apparatus according to claim 31,
wherein:

the detector discriminates one of plural specific code data,
and the controller executes the control operation based on the
5 one of the plural specific code data discriminated by the
detector.

33. (New) A camera operation method comprising:

acquiring an object image and outputting an image signal;
recording the output image signal;

detecting a light of a predetermined wavelength included in
5 the object image based on the output image signal;

determining whether an image pickup frame period is
synchronized with a period of an optical signal which is included
in the output image signal;

synchronizing the image pickup frame period with the period
10 of the optical signal by shifting a phase of the image pickup
frame period when it is determined that the image pickup frame
period is not synchronized with the period of the optical signal;
and

executing a predetermined control operation when the light
15 of the predetermined wavelength is detected.

34. (New) A camera operation method comprising:

acquiring an object image and outputting an image signal;
recording the output image signal;

detecting a transmitting position of an optical signal in
5 the object image based on the output image signal;

specifying an area of the object image based on changes in
the detected transmitting position; and

executing a control operation based on the specified area.

35. (New) A camera operation method comprising:
acquiring an object image and outputting an image signal;
recording the output image signal;
detecting a transmitting position of an optical signal in
the object image based on the output image signal;
recognizing a moving pattern of a transmitting source of the
optical signal based on changes in the detected transmitting
position detected by the detector; and
executing a control operation based on the recognized moving
pattern.

36. (New) A camera operation method comprising:
acquiring an object image and outputting an image signal;
recording the output image signal;
detecting a transmitting position of an optical signal in
5 the object image based on the output image signal;
setting a focus detection area corresponding to the detected
transmitting position; and
executing a focus control operation based on the set focus
detection area.

37. (New) A camera operation method comprising:

acquiring an object image and outputting an image signal;

recording the output image signal;

detecting a transmitting position of an optical signal in

5 the object image based on the output image signal;

setting an exposure detection area corresponding to the
detected transmitting position; and

executing an exposure control operation based on the set
exposure detection area.

38. (New) A camera operation method comprising:

acquiring an object image and outputting an image signal;

recording the output image signal;

detecting a transmitting position of an optical signal in

5 the object image based on the output image signal;

setting a color evaluation area corresponding to the
detected transmitting position; and

executing a white balance control operation based on the set
color evaluation area.

39. (New) A camera operation method comprising:

acquiring an object image and outputting an image signal,
wherein the object image includes an optical beam for

transmitting a specific code, and the image signal includes

5 specific code data indicating the specific code;

recording the output image signal;

detecting the specific code data included in the output
image signal; and

executing a control operation based on the detected specific
10 code data.